

Indoor Air Quality Sensor

IoT LoRaWAN Sensor



Description

The HKT-IAQ-1000 indoor environment monitoring sensor is independently developed and designed by Hunan HKT Technology Co., Ltd. It is a compact indoor ambience monitoring sensor for measurement of temperature, humidity, light, CO2 concentration, HCHO/O3 level, TVOC, barometric pressure, PM2.5, PM10 and motion. The data will be shown on the E-ink screen in real-time, which helps to measure the indoor environment and comfort. HKT-IAQ-1000 series is widely used for offices, stores, classrooms, hospitals, etc.

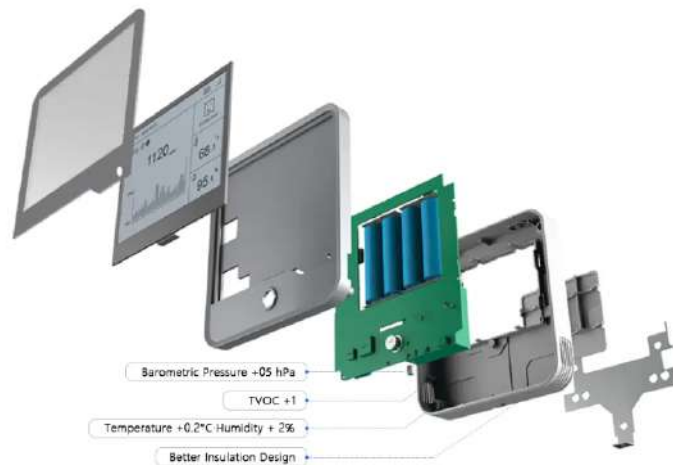
Main Function of Product

- Easy installation: support 3M glue or screw fixing.
- The longest communication distance: Up to 5Km in open environment;
- Super long standby: low power consumption, easy to replace, use 4 AAA alkaline batteries, can be used continuously for more than 1 year;
- Status display: the screen display is delicate, the visual effect is good under the sun, could see every corner, ultra-low power consumption, no refresh and no power consumption;
- Buzzer indication: through the sound of the buzzer to distinguish the state change of the environmental quality scene;
- Various monitoring contents: High-precision sensors are used to integrate formaldehyde, ozone, PM2.5&PM10, temperature and humidity, light, CO2, atmospheric pressure, TVOC, infrared detection and other functions to fully meet the indoor environment monitoring applications;
- Good compatibility: Compatible with standard LoRaWAN® gateways and third-party network server platforms;

- Integrated management: Fast connection with HKT LoRaWAN® gateway and cloud platform without additional configuration;
- Three-dimensional appearance: the shell adopts a three-dimensional structure design, with clean-cut, which brings visual impact experience to users.

Higher Accuracy with Better Insulation Design

Placement for temperature and humidity sensors is designed to isolate the heat generated when the chip is operating.



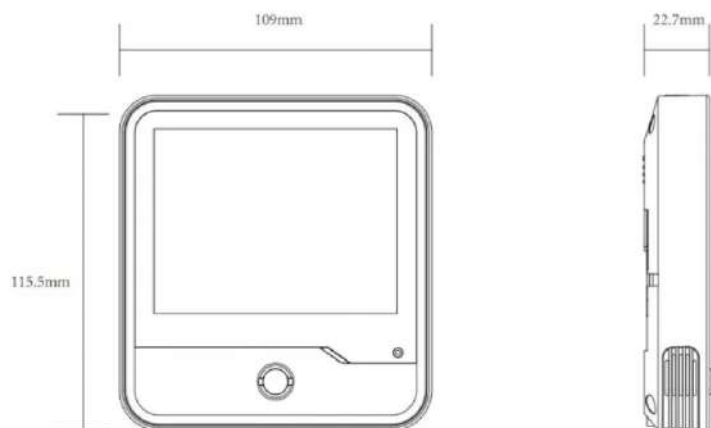
HKT provides customized services:

- ODM
- Pre-sales & After-sales Services
- Technology Support

Specification

Parameters	Description
Model	IAQ-1000
Communication	Standard LoRaWAN Protocol
Frequency	EU868,CN470,IN865,US915,AU915,AS923
Tx Power	18.5±1dBm(max)
Sensitivity	-135±1dBm @SF=12
Activation Method	OTAA/ABP Class A/Class C
Display	4.2-inch Black & White E-Ink Screen
Button	1 × Power Button + 1 × Reset Button(built in)
LED & Buzzer	3×LED lights(green/orange/red) + 1 × Buzzer
Configuration	Server or serial port
Operating Temperature	-20°C - 60°C (E-Ink Screen: 0°C - 40°C)
Relative Humidity	10% - 90% (non-condensing)
Power supply	4 AAA large-capacity batteries/Type-C power supply (5V/1A)
Dimension	115 × 109 × 23 mm
Installation	3M glue fixed or screw fixed or screw fixed wall mounting

Dimension



Packing List



1 × HKT-IAQ1000	1 × Certificate	1 × 3M Glue
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Application

LoRaWAN air quality sensor can display the data in real-time. So you can analyze and make a strategic decision to ensure that the best possible environment is provided at all the times for people.

- Home automation: To monitor and control the ambient conditions in a home, such as temperature, humidity, and air quality.
- Commercial buildings: To optimize the ambient conditions in commercial buildings, such as offices, schools, and hospitals.
- Industrial settings: To monitor ambient conditions in industrial settings, such as factories, warehouses, and mines.
- Agricultural environments: To monitor and control the ambient conditions in agricultural settings, such as greenhouses and animal enclosures.
- Transportation: To monitor the ambient conditions in transportation vehicles, such as airplanes, trains, and buses.
- Outdoor environments: To monitor ambient conditions in outdoor environments, such as parks, beaches, and public squares.